

• COLORADO RIVER • AQUEDUCT NEWS

THE METROPOLITAN WATER DISTRICT



OF SOUTHERN CALIFORNIA

Vol. IV

MARCH 10, 1937

No. 5



Dwarfed by the surrounding mountains, the superstructure of the Gene pumping plant, seen in the center of the picture, is actually 180 feet long and 50 feet high above ground level. The switch house is to the left of the building, and the delivery line to Copper Basin Tunnel No. 1 extends to the right.

COLORADO RIVER
AQUEDUCT NEWS
 THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

306 WEST THIRD ST.
 LOS ANGELES, CALIFORNIA

Published twice monthly in the interest
 of Field and Office Workers on the Colorado
 River Aqueduct, and for the information
 of all other citizens of the Metropolitan
 Water District.

Vol. IV March 10, 1937 No. 5

Pasadena Tunnels, San Rafael No. 1, Near Completion

Placing of concrete in the Pasadena tunnel on the distributing system is expected to be completed about March 16. When finished, this tunnel will be the first aqueduct feature to be completed in a District city.

Although composed of two separate schedules, the tunnel is continuous and has a total lined length of 17,664 feet. It is made up of the Pasadena extension, which is 5,546 feet long, and the Pasadena tunnel, which is 12,140 feet long, including a structure at the west portal.

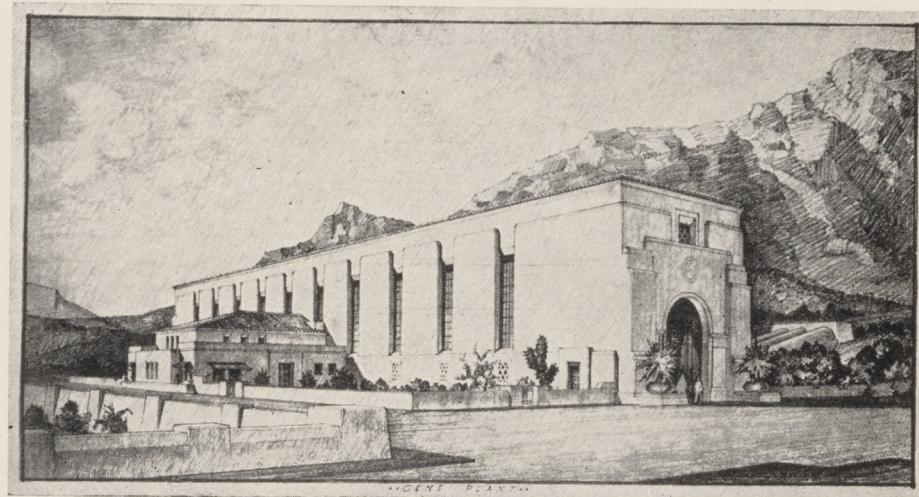
Excavation on this tunnel was started on February 21, 1935, and completed on February 25, 1936. During this period the driving crews established many new records for this size bore, including their best month of 2,185 lineal feet, which they excavated in August, 1935.

Concreting was started at the east portal of the extension on March 19, 1936. Batching was handled from a plant located at the west portal—on the edge of the Arroyo Seco and near the famous Rose Bowl. S. D. Hackley is in charge of concreting operations for the contractor, L. E. Dixon, Bent Bros., and Johnson. H. J. "Hank" Mills has been the engineer supervising these operations for the M.W.D.

On the other side of the Arroyo Seco, and being built by the same contractor, are the San Rafael tunnels Nos. 1 and 2. The placing of the concrete lining in San Rafael No. 1 is also expected to be completed during the week ending March 20.

This tunnel is 4,047 feet long and has gained fame as the Tri-City tunnel, since it is located in three District cities—Pasadena, Los Angeles, and Glendale.

(Continued on Page 8.)



This is the architect's drawing of the Gene pumping plant (see cover) as it will look when completed. Dan Elliott of the Electrical-Mechanical Division is the architect for this, and the other four Colorado River Aqueduct pumping plants.

Directory

BOARD OF DIRECTORS

W. P. Whitsett, Chairman
 Franklin Thomas, Vice-Chairman
 S. H. Finley, Secretary
 Anaheim.....E. P. Haggard
 Beverly Hills.....Arthur Taylor
 Burbank.....J. L. Norwood
 Compton.....Warren W. Butler
 Fullerton.....Walter Humphreys
 Glendale.....Bernard Brennan
 Long Beach.....William M. Cook
 Los Angeles.....I. Eisner
 Los Angeles.....Perry H. Greer
 Los Angeles.....Otto J. Emme
 Los Angeles.....D. W. Pontius
 Los Angeles.....John R. Richards
 Los Angeles.....Victor H. Rossetti
 Los Angeles.....W. P. Whitsett
 Pasadena.....Franklin Thomas
 San Marino.....J. H. Rambow
 Santa Ana.....S. H. Finley
 Santa Monica.....Arthur P. Creel
 Torrance.....Charles T. Rippy
 Charles H. Toll, Treasurer
 D. W. Pontius, Controller

GENERAL STAFF
 General Manager and Chief
 Engineer.....F. E. Weymouth
 Asst. Gen. Mgr.....J. L. Burkholder
 Asst. Chief Engineer.....Julian Hinds
 General Counsel.....James H. Howard
 Asst. Gen. Counsel.....Arthur A. Weber
 Asst. Controller.....J. M. Luney
 General Supt.....James Munn
 Chief Elec. Engineer.....J. M. Gaylord
 Asst. to Gen. Mgr.....Don J. Kinsey
 Secy. to Gen. Mgr.....Elisabeth von Hagen

DIVISION ENGINEERS
 Divisions 1 & 2.....W. E. Whittier
 Divisions 2 & 3.....John Stearns
 Division 4.....R. C. Booth
 Divisions 5 & 6.....J. B. Bond
 Distribution.....R. B. Diemer
 Transmission.....Robert N. Allen

SUPERINTENDENTS
 (Main Aqueduct Tunnels)
 Colorado River, Copper Basin
 and Whipple Mt. Tunnels, Walsh
 Construction Co., L. M. Ramey,
 Tunnel Supt.

Coxcomb and East Iron Mt.
 Tunnels, Winston Bros., R. V.
 Johnson, Gen. Supt.

Iron Mt. Tunnel, West Portal,
 Utah Construction Co., Ben Arp,
 Gen. Supt.

East Eagle Mt. Tunnel and
 West Eagle Mt. Tunnel, east
 portion, Broderick & Gordon,
 John Will, Gen. Supt.

Coachella Tunnel, Dist. Force

Acct., R. C. Booth, Gen. Supt.

East Coachella Tunnel and

1000 Palms Tunnel, Concrete, V.

T. Davis, Supt., J. C. Fisher,

General Foreman.

West Coachella Tunnels and

Conduits, Concrete, Edwin Noon,

Supt.

San Jacinto Tunnel, District

Force Acct., B. C. Leadbetter,

Gen. Supt.; S. J. Shrode, John

Austin and C. E. Sides, Tunnel

Supts.; Chas. F. Thomas,

Jr., Supt.

Valverde Tunnel, Dravo Contr.

Co., R. W. Remp, Gen. Supt.

(Distribution Tunnels)

Monrovia Tunnels Nos. 1, 2
 and 3, West Construction Co.,
 H. E. Carleton, Gen. Supt.; O.
 V. Humason, Peter Brisbols and
 Luther Dennis, Tunnel Supts.

Concrete Supt., E. M. Penn.

Pasadena Tunnel, San Rafael

Tunnels Nos. 1 and 2, and Mon-

rovia Tunnel No. 4, L. E. Dixon

Co., Bent Bros., Inc., and John-

son, Inc., S. D. Hackley and

W. N. Evans, Supts.

(Canal, Siphon, Conduit)

Schedules Nos. 1, 1A, 1B, 10,
 10A, 10B, 11, 11A, 11B, 11C, 13,
 13A, and 13B, Aqueduct Con-
 struction Co., S. T. Corfield,
 Gen. Supt.; Charles Harlowe,
 Jr., Excav. Supt.

Schedules Nos. 2, 2A, 2B, 3,
 3A, 3B, 7, and 7A, Barrett &
 Hilp and Macco Corp.; H. W.

McKinley, Supt.

Schedules Nos. 4, 4A, 5, and
 5A, Jahn & Bressi Construction
 Co., Joseph Muscolo, Gen. Supt.;
 Dominick Bressi, Asst. Gen. Supt.

Schedules Nos. 6, 8, 8A, and
 8B, Clyde W. Wood and M. J.
 Bevanda, A. F. Weesner, Gen.
 Supt.

Schedules Nos. 9, 9A, 9B, and
 9C, The Utah Construction Co.,
 Ben Arp, Gen. Supt.

Schedules Nos. 12 and 12A,
 Three Companies, Inc., John
 Will, Supt.

Schedules Nos. 14, 15, and 16,
 Thompson - Starrett Co., Inc.,
 Rodney Smith, Gen. Supt.; Will-
 iam Hayes, Excav. Supt.

Schedule 17, Dist. Force Acct.,
 H. Hjalmarson, Supt., (Fan
 Hill).

Schedules Nos. 18, 19, and 20,
 J. F. Shea Co., Inc., J. G.
 Shea, Gen. Mgr.; H. F. Ren-
 nebohm, Supt.

Schedules Nos. 20A, 20B, 20C,
 21, 22, and 23, The Griffith Co.,
 Harry Davis, Supt.

(Distribution Pipe Line)

Schedules No. 4P and 5P,
 American Concrete & Steel Pipe
 Co., Wm. A. Whiting, Gen.
 Supt.; D. H. Rankin, Plant
 Supt. and Const. Supt.

Schedules 6P and 7P, J. F.
 Shea Co., Inc., J. G. Shea, Gen.
 Mgr.; Ed. H. Shea, Gen. Supt.

Schedules 10P, United Concrete
 Pipe Corp., John Huber, Plant
 Supt.; Roy Richards, Const.
 Supt.

Schedules 2B and 2S, Western
 Pipe & Steel Co., L. L. White,
 Supt.

(Dams)

Cajalco dam, The Griffith Co.,
 Harry Davis, Gen. Supt.

Parker dam, J. F. Shea Co.,
 Frank Crowe, Gen. Supt.; E. A.
 Moritz, Constr. Eng., U.S.B.R.

(Pumping Plants)

Intake and Gene, Winston
 Bros. and Crowell, R. A.
 Crowell, Supt., F. T. Hillman,
 Engineer.

Iron Mountain, Wood and
 Bevanda; Grant Miner, Supt.

Eagle Mountain, L. E. Dixon
 Co.; S. H. Strohacker, Supt.

Hayfield, Dixon and Case;
 Crawford Strohacker, Supt.

NEWS FROM FIELD AND OFFICE

Oh, it seems to be Spring—Spring is in the Air—Springtime in Paris—or supply your own words and music, while wedding bells ring out.

Elmer Duerkson and Bernice Marshall were married in San Bernardino on March 2. Duerkson is a nurse at the Berdoo First Aid Station.



When this gent smiles, he does it in a big way—eyes, ears, and mouth. **Hugh Jones**, Assistant Engineer for the M.W.D. and placing inspector on Distribution pipe line work. Hugh has been with the District since the days of the preliminary surveys.

Lee Streicher, Chainman in the Distribution Division, was married on February 21, in Los Angeles, to the former Miss Cerna Goldstein of Chicago. (There seems to be room here for another Ed. note to the Distribution Society Correspondent, but, . . .).

This season's hold-out in announcing his marriage is Vernon Glass of the Los Angeles Office Mails and Files Section. Under the threat of physical duress, he finally admitted on March 8, that he and the former Miss Jeanette Poulin of Los Angeles were married in Santa Ana, on September 8, 1936. The odd part of the matter is that he casually announced his marriage on September 8, 1936, to his cohorts in the basement of the L. A. Office and none of them took him seriously. The NEWS is launching a thorough investigation into this matter of "basementers casually making announcement of their marriage" and will soon begin on one John Keigan, whom rumor points to as a possible suspect for investigation.

Aqueduct Temperatures February 15 to February 28

	Max.	Min.
Div. 1	75°	39°
Div. 2	75°	38°
Div. 3	75°	42°
Div. 4	74°	43°
Divs. 5 and 6	73°	26°

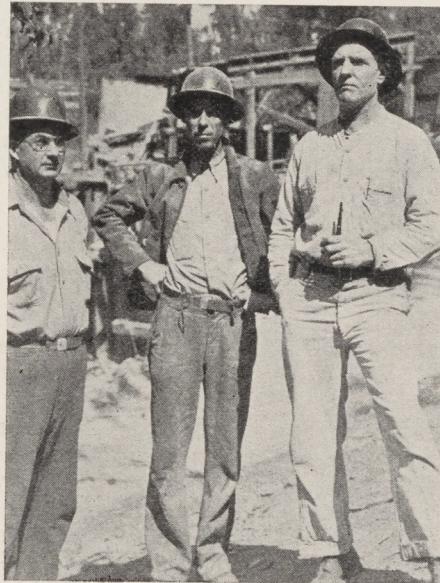
D. W. "Don" Kemp, formerly with the District in the L. A. Office of the Distribution Division, and later in the Design Division, is now engaged in the general contracting business, as a partner in the firm of Kemp Brothers, Los Angeles.

* * *

Better late than never: A card from Banning announces the arrival in the Gordon Torres family of a 7 pound baby girl on January 17. Torres is a night timekeeper at the Cabazon shaft of the San Jacinto tunnel.

* * *

The correspondent also reports that a baby girl arrived in the household of Herbert Newman on Jan. 10. Weight 9 pounds, 5 ounces. Herb Newman is an electrician at the Banning shop.



These three stern faced musketeers aren't nearly as somber as they look. From left to right are F. D. "Fred" Hudkins, and U. L. "Les" Dixon, shifters for Dixon, Bent and Johnson, on the Pasadena tunnel, and A. S. "Bert" Blake, senior inspector for the District on the same job. Believe it or not, but all three were smiling just before they froze for this picture.

The Accounting Division correspondent is now entering into the spirit of the thing of reporting last month's events, with word that Ed Clark of that Division is now the proud papa of a son born on February 15. The young man's name is Wayne Howard Clark. His dad has been with the District since March, 1933.



Another Hugh, and another old-timer on the aqueduct. He is Hugh Parker. Was also with field parties on early surveys, and later went to work for the West Construction Company on the Whitewater tunnels. At present is office manager at Fish Canyon adit of Monrovia No. 3 for the same contractor.

John H. Rose, a steel inspector for the Design Division, has been transferred in the same capacity to the Electrical-Mechanical Division.

* * *

The L. A. Golf Club has postponed its third match of the current season until April 11, because of the date of Easter Sunday. Forty players attended the last match held at the Baldwin Hills course. O. T. "Tom" Helpling of Purchasing won the low net with a 67, and N. R. Redmond of the Blue Diamond Corporation took the low gross with a score of 82. Golfers remember the next date will be April 11.

* * *

Richard G. Edwards (it boils down to "Dick") has been transferred from the L. A. Accounting Division to the Cajalco Reservoir. The lack of Dick's curly auburn locks around the L. A. Office is causing much sighing on the part of the feminine members of the office force.

BY-PRODUCTS OF THE AQUEDUCT

Like other industries, the building of the Colorado River Aqueduct has many by-products, the use of which seems far removed from their origin. One of the most interesting of these is that of furnishing the ground work for Coast League baseball. The term "gound-work" is literal in this case, since it refers to the practice diamond in Ontario which is now being used for spring training for the Los Angeles Angels. The material out of which this playing field is constructed was furnished from the excess excavation from Distribution Schedule 6P, and was placed on the ball diamond by the J. F. Shea Company, aqueduct contractors on the distribution pipe line schedule.

PASADENA AND SAN RAFAEL TUNNELS

(Continued from Page 2.)

Excavation on tunnel No. 1 was started on October 9, 1935, and completed on March 25, 1936. The placing of concrete lining was started on December 14, 1936. S. D. Hackley, for the contractor, and Hank Mills, for the District, are also in charge of concreting on this tunnel.

Both the Pasadena and the San Rafael tunnels are circular in section, and have a lined diameter of 10 feet. The Pasadena tunnel and extension are reinforced with steel for their entire length, and San Rafael No. 1 has a total of 491 lineal feet which is reinforced.



Construction of the Copper Basin siphon between Copper Basin tunnels Nos. 1 and 2. The work is being constructed by Winston Brothers and Crowell.

Who's Who On the Aqueduct



S. D. Hackley

S. D. HACKLEY
Concrete Superintendent for Dixon, Bent, Johnson, Pasadena and San Rafael Tunnels.

Born March 6, 1910, in Berkeley, Calif. . . . Graduated from the University of California at Berkeley, Civil Engineering, in 1932. . . . Prior to his graduation from college he had a number of years of experience in tunnel work, principally connected with tunnel lining. . . . Worked with his father, Roy C. Hackley, on the development of the Hackley Concrete Gun. . . . During this period he worked on the construction of the following tunnels: Sunset railroad tunnel, San Francisco . . . Cushman water tunnel for the city of Tacoma, Wash. . . . Skagit River tunnels for city of Seattle, Wash. . . . 1933-34 engaged in mining work in Northern California. . . . '34-'35 Whitewater tunnels, Colorado River Aqueduct, on tunnel lining. . . . 1935, Hayfield tunnel No. 2. . . . '35-'36 West portion, West Eagle Mt. . . . '36 to date, Superintendent in charge of concreting on Pasadena and San Rafael tunnels (See story, page 2). . . . Is married. . . . Answers to the nickname of "Sherk."

ANDREW L. GRAM
Executive Secretary of the Metropolitan Water District.

Another native son, born in Los Gatos, Calif., July 5, 1898. . . . Started in at the Mare Island Navy Yard as an apprentice machinist in 1915, and during and after World War was engaged in special mechanical research work on the construction of Naval and Military equipment. . . . Entered University of California in 1920, and graduated in Civil and Sanitary Engineering in 1924. . . . '24-'26 Engineer for Port Costa



A. L. Gram

A. L. GRAM
Concrete Superintendent for West Construction Co., Monrovia tunnels Nos. 1, 2 and 3

Water Co., Martinez, Calif. . . . '26-'27 appraising properties for Federal Water Service Corp., San Francisco. . . . 1927, Division Engineer, northern division, of same corporation, in charge of water systems for Chico, Redding, Oroville, and Willows. . . . '27-'28, Chief Engineer for Oregon-Washington Water Service Corp., Portland, Ore. . . . '28-'29, Calif. Water Service Corp., and hydraulic studies for Janss Development Co. . . . Has been with M.W.D. since April 15, 1929. . . . Was the first employee of the Water District, and received pay check No. 1. . . . Is married and has two sons. . . . Hobbies are music and amateur cinematography.

E. M. PENN
Concrete Superintendent for West Construction Co., Monrovia tunnels Nos. 1, 2 and 3

Answers to "Ernie." . . . Born Joplin, Mo., December 23, 1901. . . . Attended Manual Arts High School in Los Angeles, and graduated from University of California College of Agriculture at Davis in 1921. . . . No farming since. . . . From 1923 to 1935, was employed by the W. F. Webb Co., manufacturers and operators of concrete guns. . . . During this period he did concrete lining work on the following tunnels: Hetch Hetchy tunnels, Coast Range, San Francisco Municipal Water Supply . . . Colbrook water tunnel for city of Boston . . . New York City water supply tunnel . . . Shandaken tunnel, water supply in State of New York . . . Railroad tunnel in Arizona. . . . '35-'36 Inspector for city of San Francisco. . . . With West Construction Co. on Monrovia tunnels since April, 1936. . . . Is married and has two sons.

L. A. OFFICE TENNIS CLUB NOTES SIGNS OF SPRING

In case they haven't already noticed it, all tennis racquet wielders are hereby notified that spring is in the air, and that now is the time for all good men to come to the aid of the tennis club. The first eight men on the ladder rank

in the following order: Johnson, MacConaghay, Osgood, Anderson, Farnsworth, Skinner, Brandt, and Maier. The club is anxious to increase the size of its active ladder, and those interested should contact Merrill Johnson of Purchasing.